

A B S T R A C T

PROCESS FOR MAKING A LINEAR ALPHA-OLEFIN OLIGOMER
USING A HEAT EXCHANGER

5 The invention pertains to a process for making a
linear alpha-olefin oligomer in a reactor comprising a
liquid and a gas phase, comprising the steps of
catalytically oligomerizing ethylene in the presence of
an iron complex of a 2,6-bis(arylimino)pyridine
derivative, to an alpha-olefin oligomer under release of
heat, and removing the heat with a heat exchanger, which
is not in direct contact with the liquid phase, using at
least part of the gas phase as a coolant medium. The
10 invention further relates to an apparatus to perform said
process.